Eaton® SPDSG Series

Class I/Cat D & E Spark Gap & GDT Diverter

Shunt Surge Diverter

3 Phase, 100-400A, 80-240kA

The new SPDSG series diverters are designed as IEC 61643-1, Class I, direct strike, surge diverters to protect high risk installations. Typically known as spark gap devices, these diverters use the latest technology multiple gap element design to ensure accurate triggering & with no follow current. There are 2 models to choose from. The SPDSG50-300 is suitable for connection across L-N or L-E. The SPDSG50-255NPE is suitable for connection in common mode across N – E. Each have been tested to the stringent requirements of 10/350us waveform standard , commonly known as I imp, & exhibit exceptionally low let through voltage of less than 2.5kV at 50kA.

Specifications

- 1 mode protection. N-E, L-E or L-N
- 50kA surge suppression rating
- Compact modular solution
- 2 unit DIN43880 case, 36mm DIN-rail mount

Applications

- Direct strike point of entry locations.

Technical Specifications	SPDSG50-300	SPDSG50-255NPE
Technology	Encapsulated Spark Gap	Encapsulated Gas Arrester
Method of mounting	35mm Din rail	35mm Din rail
Input voltage (Un)	230vac nominal	230vac nominal
Max Continuous Voltage (Mcov)	300vac	255vac
Test classification IEC	Class I	Class I
Maximum rated surge current – (I imp) 10/350us	50kA	50kA
Max rated surge current – (Imax) 8/20us	140kA	140kA
Residual voltage (Vpl)	<2.5KV	<2.5KV
Leakage current	None	None
Response time	<100ns	<100ns
External disconnector max	160A gL	None
Terminations	35mm multi-strand	35mm multi-strand
Insulation resistance	> 103 M Ohm	> 103 M Ohm
Enclosure material	Thermo plastic. UL94-V0	Thermo plastic. UL94-V0
Enclosure rating	IP20	IP20
Applicable standards.	IEC61643-1:2001	IEC61643-1:2001
Dimensions	35mm (W) x 100mm (H) x 77mm (D)	35mm (W) x 100mm (H) x 77mm (D)
Weight	200 grams	200 grams
Environment	-40c to +80c	-40c to +80c
Warranty	5 years	5 years

Note: Specifications are subject to change without notice.

PowerChain Management®

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